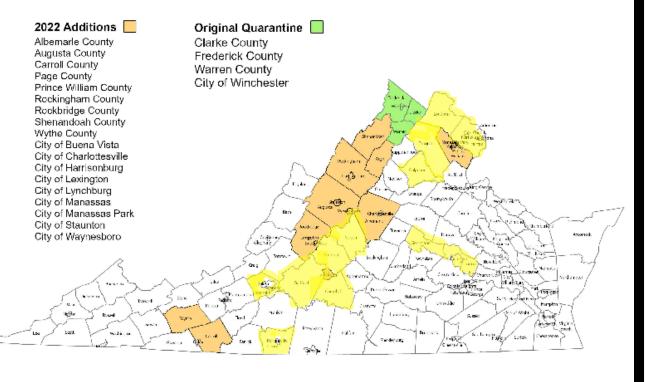


QUARANTINED: SPOTTED LANTERNFLY

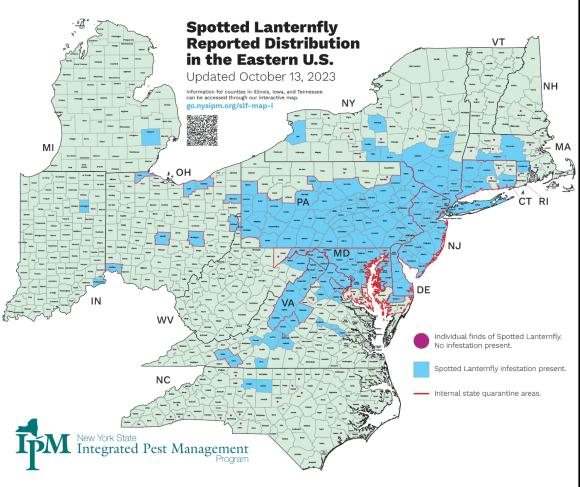


Spotted Lanternfly Quarantine



Virginia Department of Agriculture and Consumer Services Office of Plant Industry Services

July 2022



May – November Kill nymphs, adults



September - May Remove Egg masses

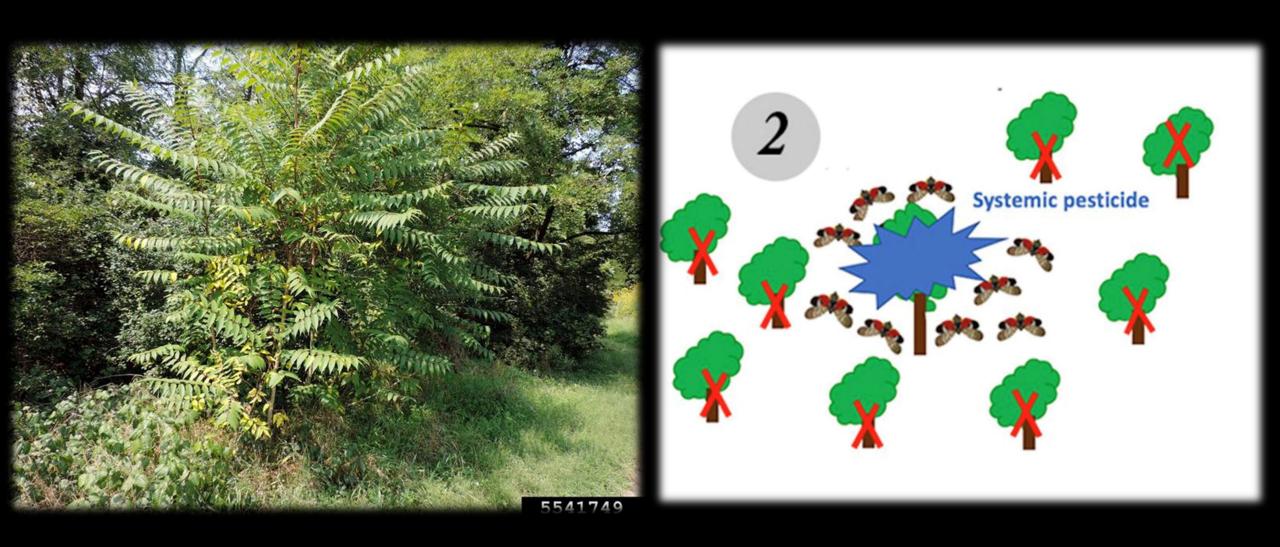


Always Check equipment, vehicles, etc.





TREE-OF-HEAVEN CONTROL



TREE-OF-HEAVEN CONTROL



Biological Control 148 (2020) 104298



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Biological Control

journal homepage: www.elsevier.com/locate/ybcon



Field-inoculated *Ailanthus altissima* stands reveal the biological control potential of *Verticillium nonalfalfae* in the mid-Atlantic region of the United States



Rachel K. Brooks^a, Kristen L. Wickert^b, Anton Baudoin^a, Matt T. Kasson^b, Scott Salom^{c,*}

- ^a Virginia Tech, School of Plant and Environmental Sciences, Blacksburg, VA, USA
- b West Virginia University, Division of Plant and Soil Sciences, Morgantown, WV, USA
- ^c Virginia Tech, Department of Entomology, Blacksburg, VA, USA

Dr. Scott Salom Tim Shively Harrison Miles







QUARANTINED: SPONGY MOTH

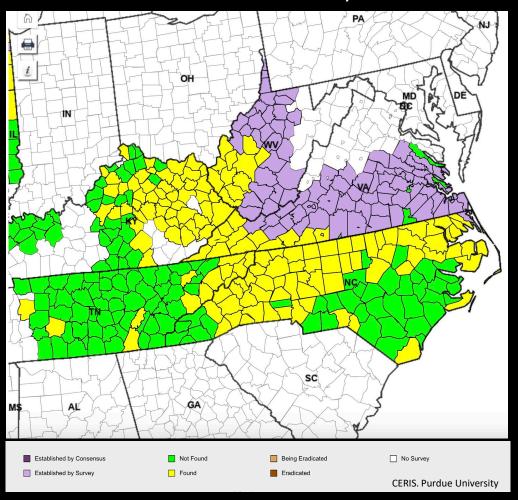




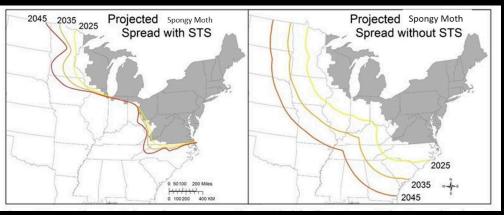


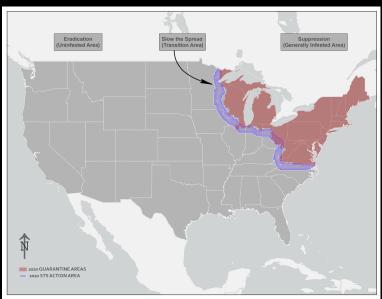
2018 Virginia Gypsy Moth Quarantine Legend un-infested counties Counties in Quarantine THE SOUTH AND OF THE Virginia Department of Agriculture and Consumer Services

2022 Annual Survey

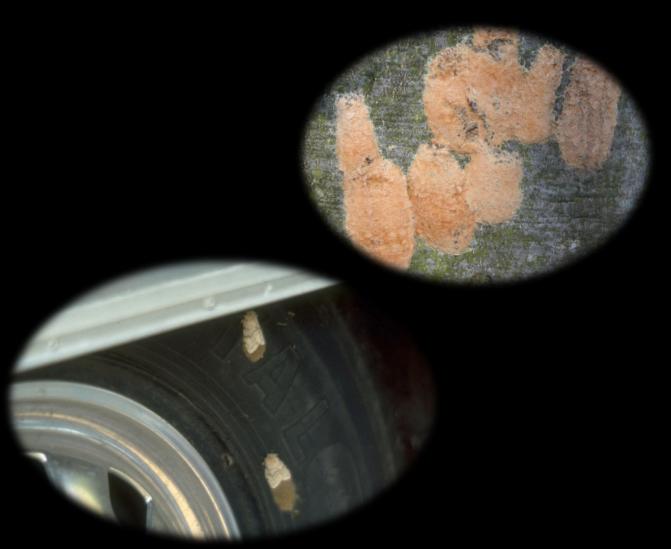


Slow the spread program



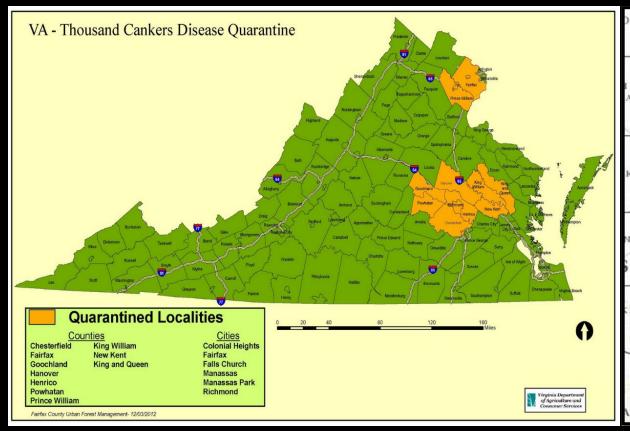


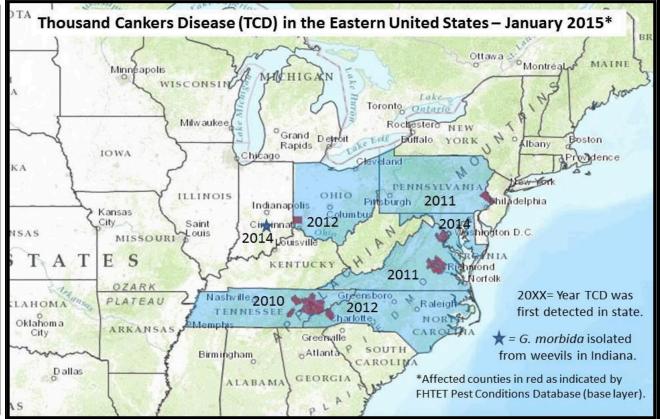
Egg mass removals



QUARANTINED:
THOUSAND
CANKERS
DISEASE







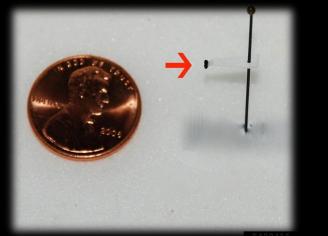
Know the symptoms

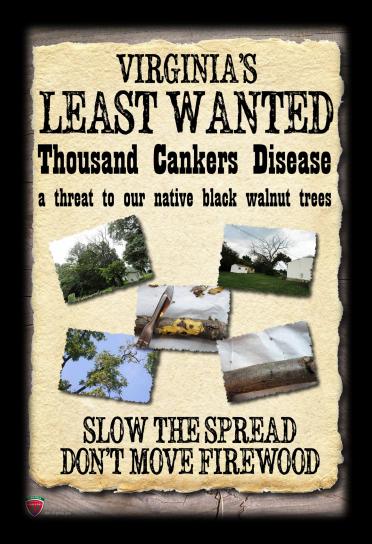




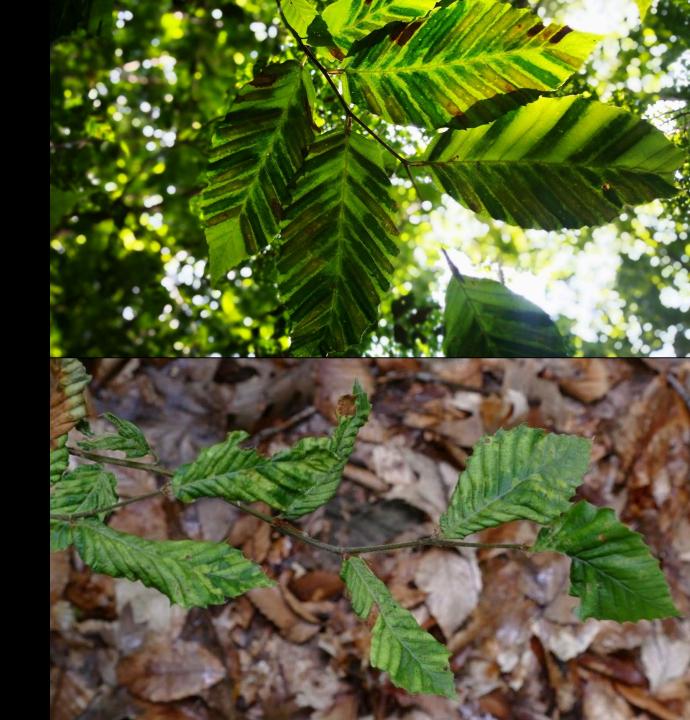
Know the walnut twig beetle







BEECH LEAF DISEASE



INFORMATION

- Symptoms associated with the non-native nematode, Litylenchus crenatae mccannii
- Bacteria or fungi may also be involved
- Nematodes infest buds and migrate into the leaf throughout the growing season
- Dispersal
 - Within tree: Rain splash
 - Throughout forest: Wind? Birds? Humans (boots)?







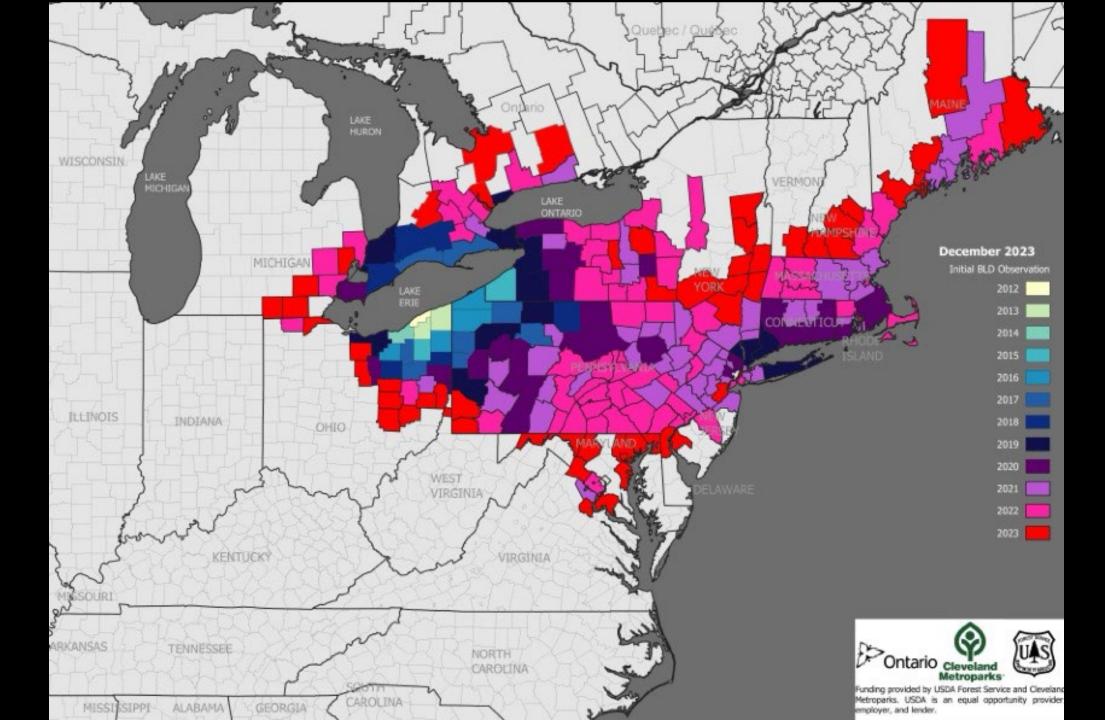
May be Involved in the Beech Leaf Disease Pathosystem

Carrie J. Ewing, 1,1 Jason Slot, María-Soledad Benítez, Cristina Rosa, Antonino Malacrinò, Alison Bennett, and Enrico Bonello

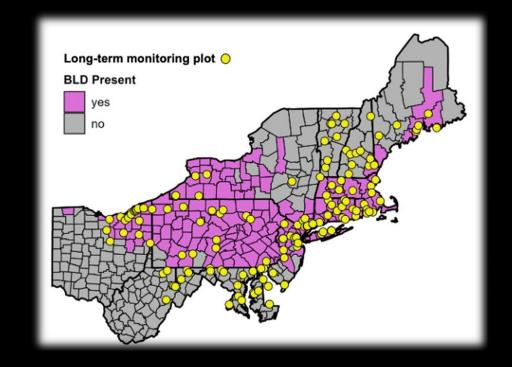
¹ Department of Plant Pathology, The Ohio State University, Columbus, OH 43210

² Department of Plant Pathology and Environmental Microbiology, The Pennsylvania State University, State College, PA 16801

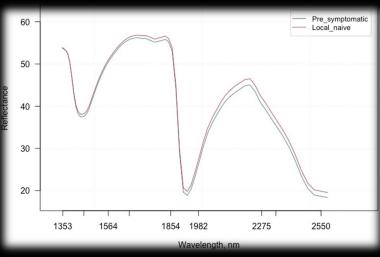
³ Department of Evolution, Ecology, and Organismal Biology, The Ohio State University, Columbus, OH 43210



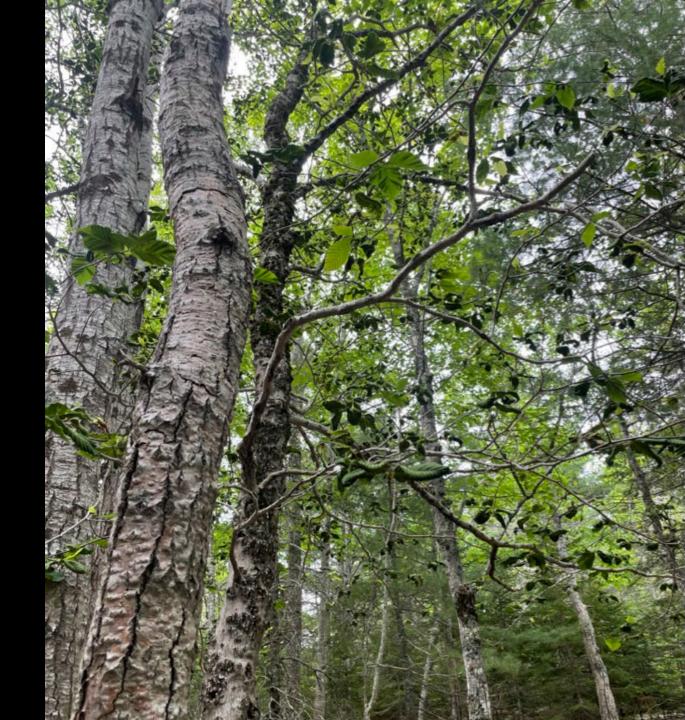
- No current management options
- Davey Tree & Cleveland Metroparks testing PolyPhosphite 30 soil application
 - Some promising results
- Bartlett is testing Emamectin benzoate treatments
- Long-term monitoring plots
- Early disease detection







BEECH BARK DISEASE



DISEASE COMPLEX

Scale insect: Cryptococcus fagisuga

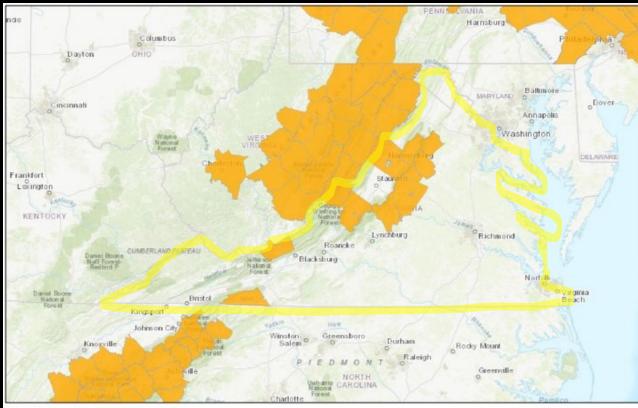


Fungus: Neonectria ditissima & faginata









1:4,622,324

Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS

120 mi

200 km

2/8/2024

AFPE PEST 2023 counties - County

STAGES OF INFESTATION

Advance Front

Killing Front



Aftermath







LAUREL WILT



DISEASE COMPLEX

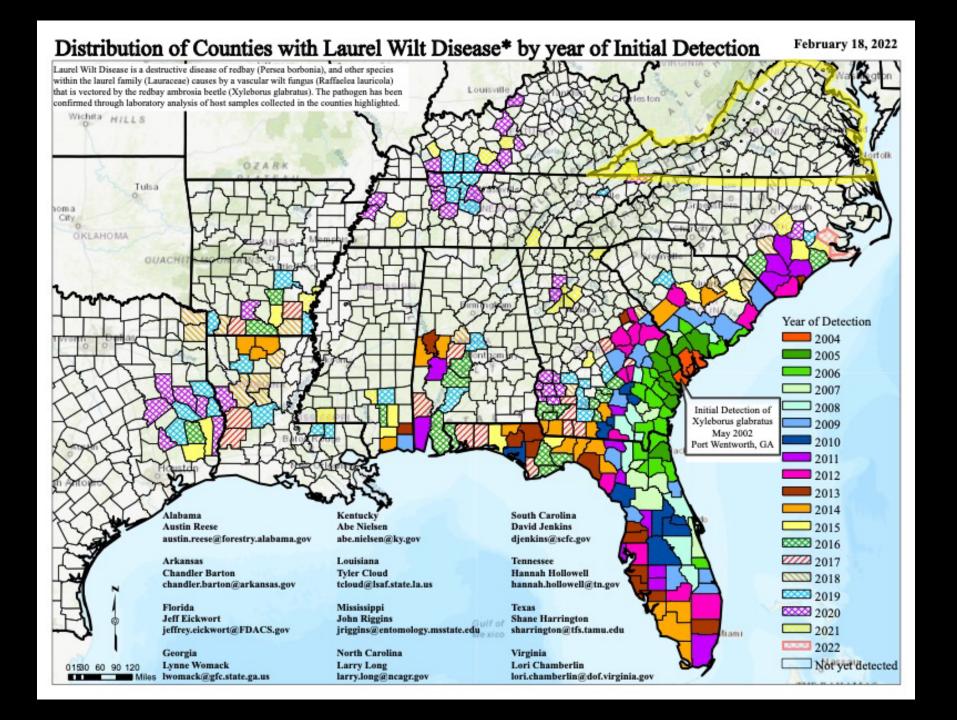
Redbay ambrosia beetle

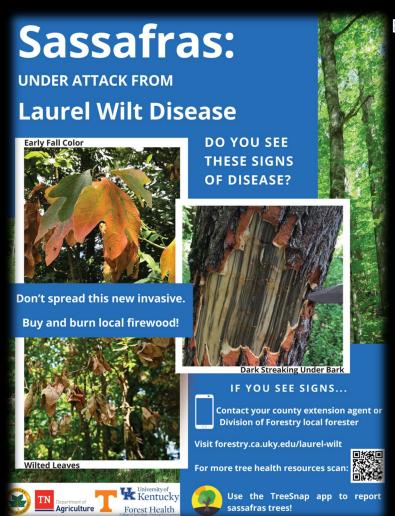




Fungus: *Harringtonia lauricola*







Early Detection – Dr. Caterina Villari, University of Georgia

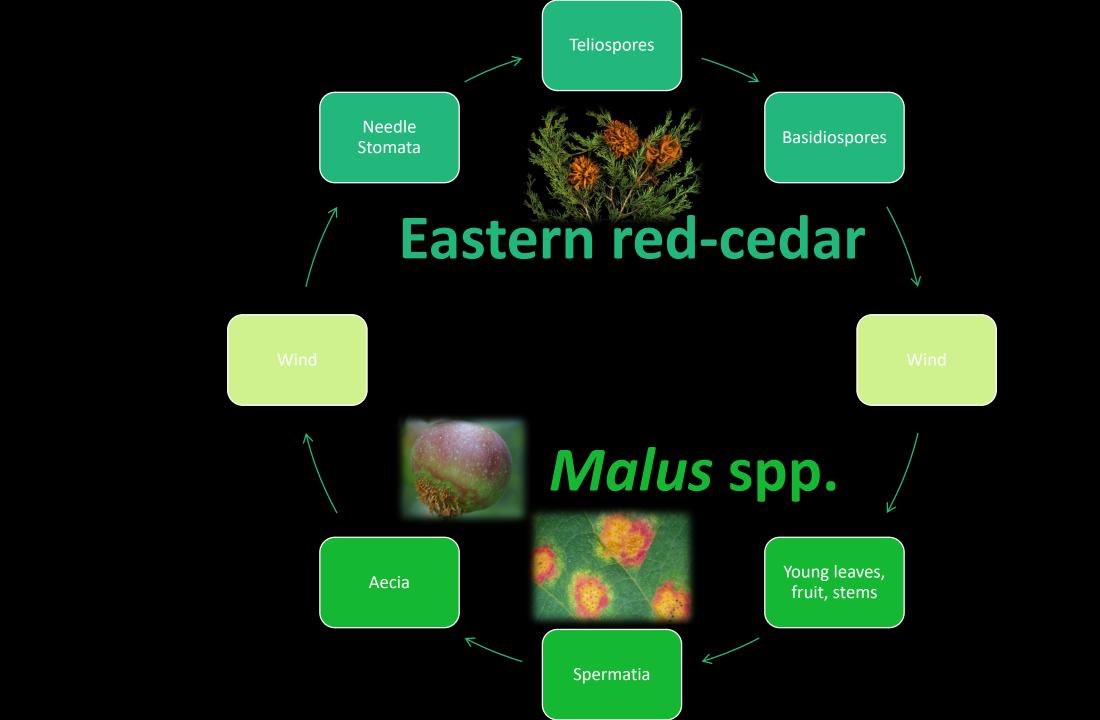


Effects of prescribed fire on redbay colonization/laurel wilt – Shane Allan



CEDAR-APPLE RUST





Eastern Red Cedar Prune galls



Apple species
Fungicides, removal of cedars within 1 mile



